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JUNO.

DURHAM. Fraunhofer Equatoreal. (Mr. R. C. Carrington.)

1850. Greenwich M.T.	R.A.	Compd—Obsd.	N.P.D.	Compd—Obsd.	Set.
	h m s	s	° ′ ″	″	
May 1 13 14 14·8	13 3 50·53	+3·15	86 25 15·6	+13·7	(1)
2 14 30 57·1	3 12·28	3·52	20 27·6	13·8	(2)
6 12 14 12·2	13 1 1·66	+2·74	86 4 22·1	+12·1	(3)

Stars of comparison for *Juno*.

Name.	Assd Appt R.A.	No. of diffs. taken.	Assd Appt N.P.D.	No. of diffs.	Set.
	h m s		° ′ ″		
Weisse XIII. No. 62	13 4 46·46	12	86 32 58·5	4	(1)
B.A.C. 4436	13 7 57·17	12	86 9 24·0	4	(2)
Weisse XII. No. 1044	13 0 24 34	26	85 56 34·9	9	(3)

(Set 2.) The fourth set of comparisons was unfavourably made.
(Set 3.) Star too close for convenience.

The observations were taken with an eye-piece having five meridian wires and two moveable declination wires; the wires were faintly illuminated in a dark field.

The observations are corrected for refraction and parallax; the parallaxes and data for *Iris* being taken from the supplement to the *Nautical Almanac* for 1853.

IRIS.

DURHAM. Fraunhofer Equatoreal. (Mr. R. C. Carrington.)

Greenwich M.T.	R.A.	Compd—Obsd.	N.P.D.	Compd—Obsd.	Set.
h m s	h m s	s	° ′ ″	″	
May 4 14 38 19·7	15 44 36·56	+0·15	113 29 32·7	+5·3	(1)
5 13 42 41·2	15 43 41·72	+0·51	113 25 49·8	+2·3	(2)

Stars of Comparison for *Iris*.

Name.	Assd Appt R.A.	No. of diffs. taken.	Assd Appt N.P.D.	No. of diffs.	Set.
	h m s		° ′ ″		
B.A.C. 5254	15 45 2·72	4	113 31 31·2	3	(1)
— —	15 45 2·73	15	113 31 31·3	5	(2)

(Set 1.) The planet and star were too close for the bisection to be made at time of right ascension measure. They were consequently taken alternately, and the north polar distance measures have been reduced to the time of the right ascension measures by the tabular hourly motion.

HYGEIA.

LIVERPOOL. Equatoreal. (Mr. Hartnup.)

1850. Greenwich M.T.	R.A.	N.P.D.	Compd—Obsd. R.A.	Compd—Obsd. N.P.D.
h m s	h m s	° ′ ″	s	″
July 17 13 3 19·3	19 11 13·82	112 16 29·2	−9·93	+133·4
18 11 52 43·5	19 10 26·88	112 16 42·5	−10·02	+132·5
19 11 32 2·1	19 9 38·93	112 16 53·5	−10·32	+132·8
20 12 19 8·3	19 8 49·21	112 17 1·7	−10·61	+134·8

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The observed places are corrected for refraction and parallax. The computed places were deduced from the ephemeris of M. d'Arrest, published in the *Monthly Notices*, vol. x. No. 7. It is supposed that the ephemeris is *not* corrected for aberration. It is also supposed that 10′ should be added to the R.A. of July 21, 23, and 25.

The star of comparison for all the observations is τ *Sagittarii*. The following is the assumed place derived from the Greenwich Twelve-year Catalogue.

For 1850·0.

Mean R.A.	Mean N.P.D.
h m s	° ′ ″
19 0 50·33	111 15 24·25

NEPTUNE.

LIVERPOOL. Equatoreal. (Mr. Hartnup.)

1850.	Greenwich M.T.	R.A.	N.P.D.	Compd—Obsd. R.A.	Compd—Obsd. N.P.D.
	h m s	h m s	° ′ ″	s	″
August 3	12 56 27·1	22 33 27·44	99 56 15·2	+0·29	−0·6
5	11 52 29·6	33 16·76	57 21·3	0·23	0·8
6	12 6 27·7	22 33 11·17	99 57 55·7	+0·20	−0·7

The observed places are corrected for refraction and parallax.

The computed places were deduced from Mr. Sears C. Walker's ephemeris, published in the *Astronomische Nachrichten*, No. 721.

The stars of comparison on each day were B.A.C. 7840 and 7970. The following assumed places for 1850·0 are derived from the Greenwich Twelve-year Catalogue.

	Mean R.A.	Mean N.P.D.
	h m s	° ′ ″
B.A.C. 7840	22 22 42·20	101 26 37·2
— 7970	22 44 47·11	98 92 34·7

FLORA.

LIVERPOOL. Equatoreal. (Mr. Hartnup.)

1850.	Greenwich M.T.	R.A.	N.P.D.	Star of Comparison.
	h m s	h m s	° ′ ″	
August 6	13 16 40·2	0 35 34·15	94 37 38·45	B.A.C. 145
	13 36 37·8	34·60	41·08	— —
	13 56 35·4	34·98	43·98	— —
	14 16 32·8	0 35 35·39	94 37 45·14	— —

Corrected for refraction and parallax. Log Δ taken from supplement to *Nautical Almanac* 1853.

Assumed place of star of comparison for 1850·0, derived from the Greenwich Twelve-year Catalogue.

	Mean R.A.	Mean N.P.D.
	h m s	° ′ ″
B.A.C. 145	0 27 31·67	94 25 9·76

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